

User Manual

**4x2 HDMI™ v1.3 Switcher**  
**AT-HDMI-V42**



**BACK**



**FRONT**



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## INTRODUCTION

The is a high performance HDMI™ v1.3 Switcher with remote control. It allows your various HDMI™ source to share two HDTV display. Simply pressing one button to select your desired HDMI™ source for display on the HDTV. Each product in this series is compatible to HDMI™ v1.3 specifications, a cutting-age technology which defines the support to transfer Deep Color (10-bit and 12-bit) video and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio, with a high bandwidth up to 225MHz.

## FEATURES

- HDMI™ 1.3, HDCP1.1 and DVI1.0 compliant Receiver.
- Deep color video up to 12bit, 1080p@60Hz.
- Four HDMI™ sources to connect up to two HDMI™ displays simultaneously.
- Supports DVI source and DVI display by using HDMI™ to/from DVI adaptor cable.
- Dolby Digital, DTS digital audio transmission (32-192kHz Fs sample rate).
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- HDMI™ cable distance test with 1080p resolution: Input/Output source can run up to 30M/5.1CH.
- Full HDCP Compliant.

## OPERATION CONTROLS AND FUNCTIONS

### 3.1. Front Panel



1. Remote Control Sensor.
2. HDMI™ input Select/Indicator: Press the "Input" button sequentially to switch to your desired input ( HDMI™ 1 to HDMI™ 4 ), the LED will illuminate to indicate which input source is selected
3. POWER Switch/Indicator: Press the "POWER" button to turn on/off the power, the power LED illuminate in red color means the power is turned on, when the LED not illuminate power is turned off.



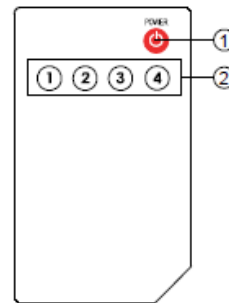
### 3.2. Rear Panel



1. **HDMI™ Outputs 1 and 2:** Connect each of the output ports to the HDMI™ display. When more than one output connected, the HDMI™ outputs play identical video signal simultaneously.
2. **RS232:** 9-pin D-Sub connector for connecting to your PC or other control console for remote control.
3. **HDMI Inputs 1 to 4:** Connect each of the input ports to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.
4. **Power:** Plug the 5V DC power supply into this unit and connect the adaptor to AC wall outlet.

### REMOTE CONTROL

1. Power: Press the button to turn on/off the unit.
2. Direct input selector:  
Press 1, 2, 3 or 4 to select the desired input source.



### RS-232 REMOTE CONTROL PROTOCOL

The connection between splitter and remote controller with RS-232 modem cable.  
 ns definition of modem cable

Splitter		→	Remote Controller	
PIN	Definition		PIN	Definition
1	NC	←	1	NC
2	TxD		2	RxD
3	RxD		3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

**5.1 RS-232 transmission format:**

Baud Rate: 9600 bps  
 Data bit: 8 Bits  
 Parity: None  
 Stop Bit: 1 bit

**5.1 RS-232 transmission format:**

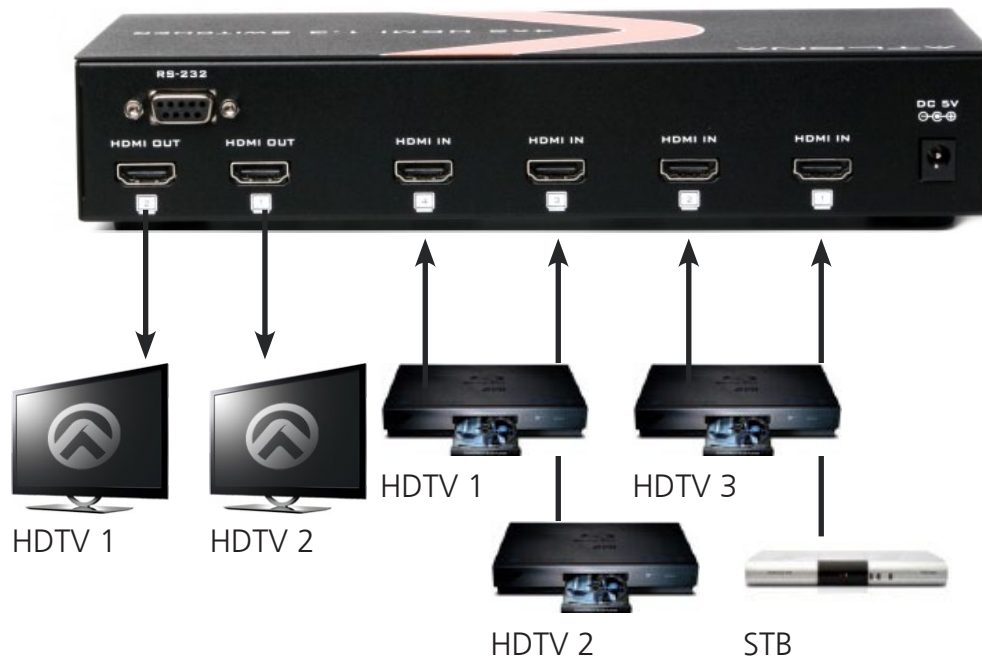
RS-232 command	Operation
POWER 00	Select power OFF
POWER 01	Select power ON
PORT 01	Select port 1
PORT 02	Select port 2
PORT 03	Select port 3
PORT 04	Select port 4

**SPECIFICATIONS**

Frequency bandwidth	2.25Gbps (single link)
Input port	4x HDMI female ports
Output port	2 x HDMI female ports
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/UL certified)
Remote Control	Discrete IR remote
Dimensions (mm)	240(W) x 104(D) x 44(H)
Weight(g)	0.8 kgs
Chassis Material	Metal
Silk Skin Color	Black
Operating Temperature	Operating from 0°C ~ 48°C



## CONNECTION AND INSTALLATION



## SAFETY INFORMATION

### Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

### Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HDMI-V42. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## WARRANTY

### Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-HDMI-V42) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

### Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

### No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

### No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.



## **ATLONA PRODUCT REGISTRATION**

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

**To register go to:** <http://www.atlona.com/registration>